


# ASUS TUF GAMING A520M-PLUS II AMD A520 Socket AM4 micro ATX

Model: 90MB17G0-M0EAY0

Manufacturer: ASUS

EAN: 4711081154457

Product Code: 991481

## R2,939

**DURABLE. STABLE. RELIABLE.**

TUF Gaming A520M-Plus II distills essential elements of the latest AMD platform and combines them with game-ready features and proven durability. Engineered with military-grade components, an upgraded power solution and a comprehensive set of cooling options, this motherboard delivers rock-solid performance with unwavering gaming stability.

When you build with a TUF Gaming motherboard, you also benefit from the TUF Gaming Alliance — an ASUS collaboration with trusted industry partners that ensures easier building, best compatibility, and complementary aesthetics from components to case.

## ROCK-SOLID PERFORMANCE

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With upgraded power delivery and comprehensive cooling options to fuel the latest AMD Ryzen CPUs, plus support for faster memory, TUF Gaming A520M-Plus II is the perfect foundation for your next high-core-count battle rig.

**Power Design**

**Stack Cool 3+**

2-ounce copper layers draw heat away from critical components to keep them at their optimal operating temperatures and provide more headroom to push CPUs beyond stock speeds.

**TUF COMPONENTS**

**TUF CHOKES**

Certified military-grade TUF chokes deliver rock-steady power to the CPU, improving system stability.

## TUF CAPACITORS

Proprietary capacitors provide up to 20% greater temperature tolerance and 5X-longer lifespan.

## Digi+ VRM

The integrated Digi+ VRM voltage-regulator module (VRM) is one of the finest in the industry, ensuring ultra-smooth and ultra-clean power delivery to the CPU at all times.

**Cooler by design**

**1. VRM HEATSINK**

A large, high-mass heatsink with extensive surface that covers the VRM and choke areas improves heat dissipation.

## COMPREHENSIVE FAN CONTROLS

TUF Gaming A520M-Plus II features comprehensive fan controls that can be configured via Fan Xpert 2+ utility or via the award-winning ASUS UEFI BIOS.

## 32Gbps M.2 Support

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M.2 slot supports up to 2280 and data-transfer speeds of up to 32 Gbps via x4 PCI Express 3.0 bandwidth, enabling quicker boot-up and app load times with OS or application drives.

## USB 3.2 GEN 1 TYPE A

Numerous USB ports support gaming rigs loaded with peripherals, including USB Type-A connectors with fast USB 3.2 Gen 1 connectivity for compatible cases.

## EASY PC DIY

TUF Gaming motherboards are designed to be easy to set up and configure just the way you want — even for first-time builders. The TUF Gaming Alliance ecosystem makes selecting compatible parts easy, while Armoury Crate software offers full control of system settings via a single dashboard. TUF Gaming motherboards give you everything you need to build your dream gaming rig without adding complexity.

## Build with confidence

TUF Gaming Alliance is a collaboration between ASUS and trusted PC-component brands to ensure compatibility with a wide range of parts, such as PC cases, power supplies, CPU coolers, memory kits and more. With more partnerships and components being added regularly, the TUF Gaming Alliance will continue to grow even stronger.

## SafeSlot Core+

SafeSlot Core+ is the ASUS-exclusive PCIe slot fortified with a one-piece stainless-steel brace that shields the slot to protect it from damage. The metal cover is tightly secured to the slot with hooks, and the entire assembly is firmly anchored to the PCB with strengthened solder points to provide a secure foundation for heavyweight graphics cards.

## ESD guards

ESD Guards prolong the life of components while preventing damage from electrostatic discharge, providing protection for up to +/- 10 kV of air discharge and +/- 6 kV of contact discharge — greatly

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surpassing the respective industry standards of +/- 6 kV and +/- 4 kV.

## TUF LANGuard

TUF LANGuard is a military-grade innovation that integrates advanced signal-coupling technology and premium surface-mounted capacitors to improve throughput, protecting the motherboard from lightning strikes and static electricity.

## DRAM overvoltage protection

Onboard resettable fuses prevent overcurrent and short-circuit damage. This extends beyond I/O ports to DRAM to safeguard the lifespan of your system and connected devices.

## Stainless-steel back I/O panel

TUF Gaming motherboards have a corrosion-resistant stainless-steel back I/O panel bonded with chromium oxide to provide a 3X-longer lifespan versus traditional panels. With this protective feature, TUF Gaming motherboards passed 72-hour salt fog testing, while other brands only passed 24-hour testing.

## BIOS FlashBack™

BIOS FlashBack™ is the simplest and safest (UEFI) BIOS update method. Simply drop the (UEFI) BIOS file onto a FAT32 formatted USB stick, plug it into the USB BIOS FlashBack™ port and press the button. Updates can even be performed without having memory or a CPU installed.

## Armoury Crate

Armoury Crate is a new software utility designed to give you centralized control of supported gaming products. From a single intuitive interface, Armoury Crate lets you easily customize RGB lighting and effects for every compatible device in your arsenal and synchronize them with Aura Sync for unified system lighting effects. The software also provides control of settings for a select and growing number of products, including keyboard and mouse preferences as well as fan speeds, making it easier to tune the look and feel of your system. Armoury Crate even features dedicated product

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registration and news areas to help you stay in touch with the gaming community.

## IMMERSIVE GAMING

TUF GAMING A520M-Plus II provides a complete, high-performance gaming package with a long list of features to improve your experience, including ultrafast networking for smoother online gameplay and onboard RGB lighting that syncs with attached accessories to help you create a personalized gaming atmosphere.

**Turbo LAN**

**NETWORK-OPTIMIZATION SOFTWARE FOR CUSTOMIZABLE PACKET PRIORITIZATION**

Turbo LAN is a network-optimization software for customizable packet prioritization. With cFosSpeed traffic-shaping technology, it allows you to configure application priority via an intuitive interface, and reduces network lag.

**1. ONE CLICK TURBO**

Adjust the network transmission priority by one click!

**2. AUTO DETECT GAME LIST**

Turbo Lan will detect every game in system, and add in list automatically.

## Outshine the Competition

A well-tuned system deserves a matching aesthetic. ASUS Aura offers full RGB lighting control with a variety of functional presets for the built-in RGB LEDs as well as strips connected to the onboard RGB headers. And it can all be synced with an ever-growing portfolio of Aura-capable hardware.

## Addressable Gen 2 RGB Header

The addressable Gen 2 RGB headers are now capable of detecting the number of LEDs on second-gen addressable RGB devices, allowing the software to automatically tailor lighting effects to specific devices. The new headers also offer backward-compatibility with existing Aura RGB gear.

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